

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|--|-------|---------------------|
| 1 | 153009 | acetic adj acid | USPAT | 2003/09/17 10:30 |
| 2 | 29274 | (acetic adj acid) and (formic adj acid) | USPAT | 2003/09/17 10:31 |
| 3 | 124 | ((acetic adj acid) and (formic adj acid)) and raffinate | USPAT | 2003/09/17 10:31 |
| 4 | 119 | ((((acetic adj acid) and (formic adj acid)) and raffinate) and extract\$ | USPAT | 2003/09/17 10:31 |
| 5 | 50 | (((((acetic adj acid) and (formic adj acid)) and raffinate) and extract\$) and ether and acetate | USPAT | 2003/09/17 10:32 |
| 6 | 2 | (((((acetic adj acid) and (formic adj acid)) and raffinate) and extract\$) and ether and acetate) and 203/\$.ccls. | USPAT | 2003/09/17 10:33 |
| 7 | 9 | (((((acetic adj acid) and (formic adj acid)) and raffinate) and extract\$) and ether and acetate) and 562/\$.ccls. | USPAT | 2003/09/17 10:34 |
| 8 | 40 | (((((acetic adj acid) and (formic adj acid)) and raffinate) and extract\$) and ether and acetate) and distil\$ | USPAT | 2003/09/17 10:40 |
| 9 | 135 | 203/15.cccls. | USPAT | 2003/09/17 10:40 |
| 10 | 115 | 203/16.cccls. | USPAT | 2003/09/17 10:41 |
| 11 | 88 | 203/45.cccls. | USPAT | 2003/09/17 10:41 |
| 12 | 152 | 203/46.cccls. | USPAT | 2003/09/17 10:42 |
| 13 | 12 | (((((acetic adj acid) and (formic adj acid)) and raffinate) and extract\$) and ether and acetate) and stripping | USPAT | 2003/09/17 10:42 |

L2 ANSWER 1 OF 1 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1996-078095 [09] WPIDS
DOC. NO. CPI: C1996-025883
TITLE: Dehydration of acetic acid in adipic acid mfr. without cobalt salt pptn. - by azeotropic distn. with cyclohexane as entrainer to reduce water content to required low level before recycling as process acid.
DERWENT CLASS: A41 E17
INVENTOR(S): BURKHARDT, B; KYSELA, E
PATENT ASSIGNEE(S): (FARB) BAYER AG
COUNTRY COUNT: 1
PATENT INFORMATION:

| PATENT NO | KIND | DATE | WEEK | LA | PG | MAIN IPC |
|------------|------|----------|-----------|----|----|------------|
| DE 4426132 | A1 | 19960125 | (199609)* | | 3 | C07C053-08 |

APPLICATION DETAILS:

| PATENT NO | KIND | APPLICATION | DATE |
|------------|------|-----------------|----------|
| DE 4426132 | A1 | DE 1994-4426132 | 19940722 |

PRIORITY APPLN. INFO: DE 1994-4426132 19940722

INT. PATENT CLASSIF.:

MAIN: C07C053-08

SECONDARY: C07C051-215; C07C051-46

BASIC ABSTRACT:

DE 4426132 A UPAB: 19960305

Dehydration of process acetic acid from liq. phase oxidn. of cyclohexane with air in the presence of Co salts as catalyst is carried out in a dehydration colum, without pptn. of Co salts, after sepn. of the adipic acid by filtration and of the cyclohexane phase by phase sepn..

Dehydration is carried out by azeotropic distn. of the acetic acid phase to be recycled, with addn. of cyclohexane, until the residual water content is less than 0.3 up to 0.7 wt.%.

ADVANTAGE - Maintaining the given residual water content prevents pptn. of Co salts.

Dwg.0/0

FILE SEGMENT: CPI

FIELD AVAILABILITY: AB; DCN

MANUAL CODES: CPI: A01-E12; E10-C02D2; E10-C04J2; N02-B01

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